

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.:

Patent No.:

Filed:

Issue Date:

Title:

Commissioner for Patents  
Washington, D.C. 20231

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST**  
**(REVOCATION OF PRIOR POWERS)**

As assignee of record of each of the patents listed in the table of attachment A,

**REVOCATION OF PRIOR POWERS OF ATTORNEY**

all powers of attorney previously given in each of the listed patents are hereby revoked, and

**NEW POWER OF ATTORNEY**

the following attorneys/agents are hereby appointed to prosecute this patent/application and to transact all business in the Patent and Trademark Office connected therewith: I hereby appoint all attorneys of Thomas, Kayden, Horstemeyer & Risley, LLP, who are listed under the USPTO Customer Number shown below as the attorneys to prosecute this patent/application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Thomas, Kayden, Horstemeyer & Risley, LLP, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number:

**15650**

Patent Trademark Office

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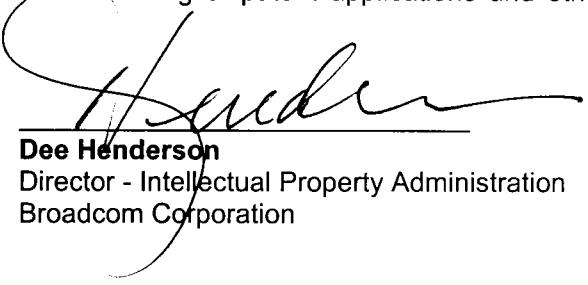
**ASSIGNEE OF ENTIRE INTEREST**

**BROADCOM CORPORATION**  
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Irvine, California 92617-3038

**ASSIGNEE CERTIFICATION**

The certification under 37 C.F.R. §3.73(b) establishing the right of assignee to take action is attached hereto along with documentation evidencing same. Further, in my official position with Broadcom Corporation, I am authorized to sign documents and otherwise act on its behalf in connection with the management and handling of patent applications and other intellectual property matters.

Date: 9/12/11

  
**Dee Henderson**  
Director - Intellectual Property Administration  
Broadcom Corporation

**Attachment A**

No.	Patent No	BD No.	Patent Title	Issue Date	BD Assign't (Reel/Frame)
1	7,443,812	BU1340C1	VOICE AND DATA EXCHANGE OVER A PACKET BASED NETWORK WITH AGC	10-28-2008	023060/0615
2	7,924,752	BU1340C2	VOICE AND DATA EXCHANGE OVER A PACKET BASED NETWORK WITH AGC	04-12-2011	023060/0615
3	6,850,577	BU1268I1C1	VOICE AND DATA EXCHANGE OVER A PACKET BASED NETWORK WITH TIMING RECOVERY	02-01-2005	010818/0778
4	7,529,325	BU1268I1C2	VOICE AND DATA EXCHANGE OVER A PACKET BASED NETWORK WITH TIMING RECOVERY	05-05-2009	010818/0778
5	6,661,427	BU1263	GRAPHICS DISPLAY SYSTEM WITH VIDEO SCALER	12-09-2003	<u>010681/0057</u>
6	6,700,588	BU1264	APPARATUS AND METHOD FOR BLENDING GRAPHICS AND VIDEO SURFACES	03-02-2004	<u>010701/0460</u>
7	7,057,627	BU1480	VIDEO AND GRAPHICS SYSTEM WITH SQUARE GRAPHICS PIXELS	06-06-2006	<u>011892/0230</u>
8	7,336,287	BU1480C1	VIDEO AND GRAPHICS SYSTEM WITH SQUARE GRAPHICS PIXELS	02-26-2008	011892/0230
9	7,719,547	BU1480C2	VIDEO AND GRAPHICS SYSTEM WITH SQUARE GRAPHICS PIXELS	05-18-2010	011892/0230
10	6,570,579	BU1202	GRAPHICS DISPLAY SYSTEM	05-27-2003	<u>010643/0928</u>
11	6,975,324	BU1233.5	VIDEO AND GRAPHICS SYSTEM WITH A VIDEO TRANSPORT PROCESSOR	12-13-2005	<u>011671/0033</u>
12	7,538,783	BU1263C1	GRAPHICS DISPLAY SYSTEM WITH VIDEO SCALER	05-26-2009	010681/0057
13	7,920,151	BU1263C2	GRAPHICS DISPLAY SYSTEM WITH VIDEO SCALER	04-05-2011	010681/0057
14	7,002,602	BU1264C1	APPARATUS AND METHOD FOR BLENDING GRAPHICS AND VIDEO SURFACES	02-21-2006	010701/0460
15	7,489,729	BU1856C1	METHOD AND APPARATUS FOR IMPLEMENTING REDUCED MEMORY MODE FOR HIGH-DEFINITION TELEVISION	02-10-2009	<u>021093/0200</u>
16	7,444,455	BU1900D1	INTEGRATED GIGABIT ETHERNET PCI-X CONTROLLER	10-28-2008	015735/0148
17	6,741,243	BU1428	METHOD AND SYSTEM FOR REDUCING OVERFLOWS IN A COMPUTER GRAPHICS SYSTEM	05-25-2004	<u>011572/0759</u>
18	7,548,622	BU1441	SYSTEM AND METHOD FOR THE CONCEALMENT OF DEVICE INPUT PARAMETERS	06-16-2009	<u>011971/0515</u>
19	7,546,099	BU1540	BLUETOOTH BASEBAND SOLUTION WITH REDUCED PROCESSOR REQUIREMENTS AND INTEGRATED HOST CONTROLLER	06-09-2009	<u>017831/0590</u>
20	7,149,474	BU1606	WIRELESS CABLE REPLACEMENT SYSTEM	12-12-2006	<u>017831/0593</u>
21	7,187,916	BU5349	METHOD AND SYSTEM FOR MEASURING RECEIVER MIXER IQ MISMATCH	03-06-2007	<u>018075/0976</u>

No.	Patent No	BD No.	Patent Title	Issue Date	BD Assign't (Reel/Frame)
22	7,596,363	BU5349C1	METHOD AND SYSTEM FOR MEASURING RECEIVER MIXER IQ MISMATCH	09-29-2009	0140808/0052
23	6,987,821	BU1281	VOICE AND DATA EXCHANGE OVER A PACKET BASED NETWORK WITH SCALING ERROR COMPENSATION	01-17-2006	<u>011344/0805</u>
24	6,967,946	BU1332	VOICE AND DATA EXCHANGE OVER A PACKET BASED NETWORK WITH PRECISE TONE PLAN	11-22-2005	<u>012113/0953</u>
25	6,486,887	BU1432	METHOD AND SYSTEM FOR IMPROVING COLOR QUALITY OF THREE-DIMENSIONAL RENDERED IMAGES	11-26-2002	<u>010872/0970</u>
26	6,396,360	BU1657	METHOD AND CIRCUITRY FOR IMPLEMENTING AN INDUCTOR-CAPACITOR PHASE INTERPOLATED VOLTAGE-CONTROLLED OSCILLATOR	05-28-2002	<u>012572/0599</u>
27	6,888,578	BU2109	METHOD AND SYSTEM FOR CROSS-LUMINANCE REDUCTION IN MULTI-STANDARD TELEVISION DECODERS	05-03-2005	<u>012912/0771</u>
28	7,362,251	BU5375	METHOD AND SYSTEM FOR DIGITAL TO ANALOG CONVERSION FOR POWER AMPLIFIER DRIVER AMPLITUDE MODULATION	04-22-2008	<u>017955/0449</u>
29	7,548,180	BU5375C1	METHOD AND SYSTEM FOR DIGITAL TO ANALOG CONVERSION FOR POWER AMPLIFIER DRIVER AMPLITUDE MODULATION	06-16-2009	017955/0449
30	7,865,030	BU5383	METHOD AND SYSTEM FOR MOTION COMPENSATED TEMPORAL FILTERING USING BOTH FIR AND IIR FILTERING	01-04-2011	<u>018949/0350</u>
31	6,980,528	BU1357.1	VOICE AND DATA EXCHANGE OVER A PACKET BASED NETWORK WITH COMFORT NOISE GENERATION	12-27-2005	<u>011608/0996</u>
32	6,731,296	BU1416	METHOD AND SYSTEM FOR PROVIDING PROGRAMMABLE TEXTURE PROCESSING	05-04-2004	<u>010903/0946</u>
33	6,559,685	BU1659	REGENERATIVE SIGNAL LEVEL CONVERTER	05-06-2003	<u>012024/0668</u>
34	7,787,491	BU5423	METHOD AND SYSTEM FOR SYNCHRONIZABLE E-VSB ENHANCED DATA INTERLEAVING AND DATA EXPANSION	08-31-2010	<u>018309/0401</u>
35	6,762,756	BU1409C2	GRAPHICS PROCESSOR, SYSTEM AND METHOD FOR GENERATING SCREEN PIXELS IN RASTER ORDER UTILIZING A SINGLE INTERPOLATOR	07-13-2004	010892/0812
36	5,926,181	BU1410	METHOD AND APPARATUS FOR IDENTIFYING AND ELIMINATING THREE-DIMENSIONAL OBJECTS VISUALLY OBSTRUCTED FROM A PLANAR SURFACE	07-20-1999	<u>010901/0110</u>
37	6,624,819	BU1430	METHOD AND SYSTEM FOR PROVIDING A FLEXIBLE AND EFFICIENT PROCESSOR FOR USE IN A GRAPHICS PROCESSING SYSTEM	09-23-2003	<u>010873/0793</u>
38	6,937,251	BU1432C1	METHOD AND SYSTEM FOR IMPROVING COLOR QUALITY OF THREE-DIMENSIONAL RENDERED IMAGES	08-30-2005	010872/0970
39	7,099,278	BU1851	LINE LOOP BACK FOR VERY HIGH SPEED APPLICATION	08-29-2006	<u>012085/0192</u>

No.	Patent No	BD No.	Patent Title	Issue Date	BD Assign't (Reel/Frame)
40	7,463,864	BU5352	MODIFIED DUAL BAND DIRECT CONVERSION ARCHITECTURE THAT ALLOWS EXTENSIVE DIGITAL CALIBRATION	12-09-2008	<u>018075/0976</u>
41	7,818,028	BU5352C1	MODIFIED DUAL BAND DIRECT CONVERSION ARCHITECTURE THAT ALLOWS EXTENSIVE DIGITAL CALIBRATION	10-19-2010	<u>018075/0976</u>
42	6,185,263	BU1223	ADAPTIVELY CONFIGURABLE CLASS-A/CLASS-B TRANSMIT DAC FOR TRANSCEIVER EMISSION AND POWER CONSUMPTION CONTROL	02-06-2001	<u>010260/0513</u>
43	5,963,210	BU1409	GRAPHICS PROCESSOR, SYSTEM AND METHOD FOR GENERATING SCREEN PIXELS IN RASTER ORDER UTILIZING A SINGLE INTERPOLATOR	10-05-1999	<u>010892/0812</u>
44	6,456,284	BU1409C1	GRAPHICS PROCESSOR, SYSTEM AND METHOD FOR GENERATING SCREEN PIXELS IN RASTER ORDER UTILIZING A SINGLE INTERPOLATOR	09-24-2002	<u>010892/0812</u>
45	6,285,348	BU1414	METHOD AND SYSTEM FOR PROVIDING IMPLICIT EDGE ANTIALIASING	09-04-2001	<u>010897/0886</u>
46	6,775,667	BU1429	METHOD AND SYSTEM FOR PROVIDING A HARDWARE SORT FOR A LARGE NUMBER OF ITEMS	08-10-2004	<u>010873/0751</u>
47	7,440,504	BU2062	METHOD AND APPARATUS FOR PERFORMING DEBLOCKING FILTERING WITH INTERLACE CAPABILITY	10-21-2008	<u>013424/0646</u>
48	7,057,622	BU1205C1	GRAPHICS DISPLAY SYSTEM WITH LINE BUFFER CONTROL SCHEME	06-06-2006	<u>010608/0307</u>
49	6,768,774	BU1233.3	VIDEO AND GRAPHICS SYSTEM WITH VIDEO SCALING	07-27-2004	<u>011657/0447</u>
50	7,991,049	BU1233.3C	VIDEO AND GRAPHICS SYSTEM WITH VIDEO SCALING	08-02-2011	<u>011657/0447</u>
51	6,573,905	BU1233.6	VIDEO AND GRAPHICS SYSTEM WITH PARALLEL PROCESSING OF GRAPHICS WINDOWS	06-03-2003	<u>013948/0254</u>
52	6,608,630	BU1205	GRAPHICS DISPLAY SYSTEM WITH LINE BUFFER CONTROL SCHEME	08-19-2003	<u>010608/0307</u>
53	7,227,582	BU1209C	GRAPHICS DISPLAY SYSTEM WITH VIDEO SYNCHRONIZATION FEATURE	06-05-2007	<u>011185/0189</u>
54	7,545,438	BU1209C1	GRAPHICS DISPLAY SYSTEM WITH VIDEO SYNCHRONIZATION FEATURE	06-09-2009	<u>011185/0189</u>
55	6,870,538	BU1233.6C1	GRAPHICS DISPLAY SYSTEM WITH VIDEO SYNCHRONIZATION FEATURE	06-09-2009	<u>019848/0254</u>
56	7,659,900	BU1233.6C3	VIDEO AND GRAPHICS SYSTEM WITH PARALLEL PROCESSING OF GRAPHICS WINDOWS	02-09-2010	<u>010643/0928</u>
57	7,365,752	BU1233.7C1	VIDEO AND GRAPHICS SYSTEM WITH A SINGLE-PORT RAM	04-29-2008	<u>011607/0583</u>